RESP. DATED APR. 10, 2006

RESP. TO OFFICE ACTION OF FEB. 9, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended): A battery pack comprising:
 - a battery block that houses one or more cylindrical lithium ion secondary batteries in a battery package, said batteries being arranged in the battery block according to a given polarity and include an external connector and connected to each other with a metal tab, wherein the tab is made by punching out a metal plate material into a strip shape and bending the strip in a given shape;
 - a circuit block housing a circuit in a circuit package, the circuit having a measurement function associated with at least one of a use condition of the batteries, a measurement function associated with performance of the batteries, and a protection function to protect the batteries, wherein the circuit block housing includes a pressure release hole; and
 - an outer case capable of fitting in and housing the battery block and the circuit block, wherein the battery block and the circuit block can be independently removed and replaced from the outer case, and wherein an inside dimension of the outer case substantially equals a total outside dimension of the battery block and the circuit block, wherein the battery block has a connection terminal on a side facing the circuit block, said connection terminal connected to the tab, and the circuit block has a connection on a side facing the battery block and a part of the connection terminal which is exposed out of the battery package and circuit package includes a blade spring in a tranche shape, wherein at least one of the battery package and the circuit package includes a hermetic package, and wherein the hermetic package has a hermetic structure that is formed by fitting together an open top lower package and an upper package having a groove corresponding to an opening of the lower package by press fitting and the outer case can include a notch on a sidewall of the lower case and a notch on a sidewall of the upper case, wherein the upper case can releasably engage the lower case such that the external connector of the battery block is accessible through the notch.

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Claims 2-4 (canceled)

5. (previously presented): The battery pack according to claim 1, wherein the connection terminals are insert molded in the battery package and the circuit package.

6. (previously presented): The battery pack according to claim 1, wherein the connection terminal and a tab of the battery have branched parts on each edge and are connected by engaging the branched parts of the connection terminal and the branched parts of the tab of the battery.

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7. (currently amended): A battery pack comprising:

an outer case for housing one or more cylindrical lithium ion secondary batteries and a circuit having an external connector and at least one of a measurement function associated with a use condition of the batteries, a measurement function associated with performance of the batteries and a protection function to protect the batteries, wherein battery tabs at both ends are connected to a cathode and an anode of the battery and a central tab is connected to a midpoint lead, and

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wherein the midpoint lead is adapted to measure a potential between two batteries, and wherein inside of the outer case is completely separated into two chambers by a partition wall and the batteries and the circuit are separately housed in the two chambers, respectively, and wherein the outer case comprises a pressure release hole and an open top lower case with an inside that is sectioned into a plurality of chambers by a lower partition wall; and an upper case having an upper partition wall with a groove corresponding to the lower partition wall such that the two chambers have hermetic structures by formation of the partition wall by press fitting the lower partition wall into the groove of the upper partition wall and by forming a joint at an opening of the lower case, wherein the external connector is accessible via a notch disposed in the outer case, and wherein the tabs are arranged on the lower partition wall by insert molding and the tabs are made by punching out a metal plate material into a strip shape and bending the strip in a given shape.

Claims 8-9 (canceled).

- 10. (original): The battery pack according to claim 7, wherein a tab of the outer case and a tab of the battery have branched parts on each edge and are connected by engaging the branched parts of the tab of the outer case and the branched parts of the tab of the battery.
- 11. (original): The battery pack according to claim 7, wherein the outer case comprises tabs installed through at least one of the lower partition wall and the upper partition wall for electrically connecting the batteries and the circuit.

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12. (new): A battery pack comprising:

a battery block, the battery block including:

- a battery package configured to house at least two substantially cylindrical batteries;
- at least one metal tab configured to electrically connect the at least two substantially cylindrical batteries; and
- at least one battery connection terminal electrically connected to the at least one metal tab;

a circuit block, the circuit block including:

- a pressure release hole;
- a circuit package supporting a circuit programmed to perform a measurement function and programmed to perform a protection function;
- at least one circuit connection terminal configured to electrically connect to the at least one battery connection terminal; and

an outer case, the outer case including:

- a lower case having a sidewall defining an interior, the lower case sized to carry the electrically connected battery and circuit blocks within the interior;
- an upper case having a sidewall defining an interior, the sidewall of the upper case sized to enclose and removable engage the sidewall of the lower case in a nested and hermetically sealed manner;
- a notch formed by the cooperation of the sidewall of the lower case and the sidewall of the upper case.
- 13. (new) The battery pack of claim 12, wherein the circuit block includes a vent hole configured to relieve pressure generated via thermal buildup.
- 14. (new): The battery pack of claim 12, wherein the at least one connection terminals are insert molded in the battery package and the circuit package.

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15. (new): The battery pack of claim 12, wherein the at least one battery connection terminal and the at least one metal tab of the battery block each define a branched part, the branched part of the at least one battery connection terminal configured to engage the branched part of the at least one metal part.

- 16. (new): A battery pack comprising:
 - a battery block, the battery block including:
 - a battery package configured to house at least two substantially cylindrical batteries;

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- at least one metal tab configured to electrically connect the at least two substantially cylindrical batteries; and
- at least one battery connection terminal electrically connected to the at least one metal tab;

a circuit block, the circuit block including:

- a pressure release hole;
- a circuit package supporting a circuit programmed to perform a measurement function and programmed to perform a protection function;
- at least one circuit connection terminal configured to electrically connect to the at least one battery connection terminal; and

an outer case, the outer case including:

- a lower case having a sidewall defining an interior, the interior including a first chamber sized to carry the battery block, and a second chamber sized to carry the circuit block, wherein the battery and circuit blocks are electrically connected through a lower partition wall separating the first and second chambers;
- an upper case having a groove, the upper case sized to cooperate with the lower case such that the groove engages the lower partition wall to provide a hermetic seal between the upper and lower cases; a notch disposed in the outer case.
- 17. (new): The battery pack of claim 16, wherein the circuit block includes an external connector accessible via the notch.